

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number
WO 2005/058947 A1

(51) International Patent Classification⁷: **C07K 14/395**,
C12N 15/81, 1/18

(74) Agents: **HEUVEL, VAN, Margaretha** et al.; DSM Intellectual Property, Delft Office (600-0240), P.O. Box 1, NL-2600 MA DELFT (NL).

(21) International Application Number:
PCT/EP2004/014577

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date:
20 December 2004 (20.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03078992.9 19 December 2003 (19.12.2003) EP

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicants (*for all designated States except US*): **DSM IP ASSETS B.V.** [NL/NL]; Het Overloon 1, NL-6411 TE HEERLEN (NL). **INSTITUTE NATIONAL DE LA RECHERCHE AGRONOMIQUE** [FR/FR]; 147 rue de l'Université, F-75338 PARIS Cedex 07 (FR).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **PELLERIN, Patrice, Jacques, Marie** [FR/FR]; 1 rue Camp de Fabre, F-34880 LAVÉRUNE (FR). **BLONDIN, Bruno** [FR/FR]; 5, rue des cigales, F-34070 MONTPELLIER (FR). **SABLAYROLLES, Jean-Marie** [FR/FR]; 476, rue des bouisses, F-34070 MONTPELLIER (FR). **GUILLAUME, Carole** [FR/FR]; 7, rue de la chicane, F-34680 Saint George d'Orques (FR).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: YEAST STRAINS WITH IMPROVED FRUCTOSE FERMENTATION CAPACITY

(57) Abstract: The present invention describes The present invention relates to yeast strains with improved carbohydrate fermentation capacity, in particular to strains transformed with a gene encoding an improved hexose transporter gene, more in particular a mutated HXT3 gene.

WO 2005/058947 A1